



Manufacturing Technology  
Training  
An IMTMA initiative

**Certified Specialist in Core Tools of Quality -As per IATF 16949:2016**  
**Date : 16, 20-21-22, 27-28-29 September and 11-12-13 October 2022**  
**16 Sep: 0930 - 1700hrs. | 20-21-22 Sept, 27-28-29 Sept: 1340 - 1700hrs. | 11-12-13 Oct 2022: 1340 - 1700hrs.**

## INTRODUCTION

In the highly competitive environments of Automotive / Manufacturing, most organizations are challenged with several simultaneous and equally complex goals:

- *Provide high-quality products meeting or exceeding customer expectations*
- *Produce sustainable volume*
- *Deliver on time*
- *Ensure costs are under control and be profitable*
- *To ensure all legal requirements are met.*

Such goals demand that you raise your competence and knowledge in Quality Management techniques and establish your credibility to manage challenges with predictable assurance.

The Quality Core Tools are the building blocks of an effective quality management system. It is important to get an understanding of how the Core tools of quality work, learn the common language that connects all the tools, and learn effective use of all the Core Tools of quality.

Organizations whose employees have mastered the Core Tool processes can assure their customers that the industry's most qualified individuals are working on their behalf and that IATF 16949 and applicable quality reference manual requirements will be met without fail.

Keeping this in view, **IMTMA is organizing this program covering the 5 Core tools of quality.**

**Download - [Detailed Brochure](#)**

**\*Note: Participants may consider either of the following options to register:**

**Option 1: Entire module (Core Tools of Quality - APQP, FMEA, MSA, SPC, and PPAP) of 34 Hrs duration** (16, 20-21-22, 27-28-29 September, and 11-12-13 October 2022)

**Option 2: Individual Modules of Core tools:-**

**Module 1: Advanced Product Quality Planning (APQP) & PPAP (16 Sep & 13 Oct 2022)** [Click here for registration](#)

**Module 2: Failure Mode and Effects Analysis (FMEA) (20-21-22 Sep 2022)** [Click here for registration](#)

**Module 3: Measurement System Analysis (MSA) (27-28-29 Sep 2022)** [Click here for registration](#)

**Module 4: Statistical Process Control (SPC) (11-12 Oct 2022)** [Click here for registration](#)

## FOCUS AREAS

This program covers the important aspects of Core tools of quality. Following are the focus areas of the program:

- **Advanced Product Quality Planning (APQP)** to define a process that creates a roadmap for developing new products complete with time-based milestones and decision points along the way.
- **Failure Mode and Effects Analysis (FMEA)**, a core tool that uncovers potential failure modes, assesses the risk those failure modes and establishes action priorities to mitigate the highest priority risks.
- **Measurement System Analysis (MSA)**, a critical core tool, assures that the measurements you are taking are accurate.
- **Statistical Process Control (SPC)** gives operators a tool to monitor stable processes and to identify when the process is going out of control due to special causes so that problems can be addressed before product quality is affected.
- **Production Part Approval Process (PPAP)** provides a formal, standardized framework for customer-supplier communications regarding the specification and quality requirements for products, parts, and materials.

## KEY TAKE AWAYS

- **Gain a basic understanding of the Core Tools used in New Product Development as well as for ongoing process control for existing products.**
- Conduct basic SPC & MSA studies and interpret results.
- **Focus on New Product Development Assurance through APQP and PPAP**
- Understand the importance and necessity of APQP & PPAP to meet customer requirements
- **Focus on the use of Process Management to achieve standardization and improvement using Process Flow**
- Take part in FMEA reviews in your organization and contribute in CFT meetings
- **Add value in Production/Manufacturing Services through effective implementation of the core tools**
- Participate in FMEA discussions

## FEE PER PARTICIPANT (PER LOGIN)

**Rs. 22500/-**

+18% GST

**IMTMA Members/ Micro Companies/ Individuals/  
Educational Institutions / Students/ IMTMA Non  
Members/ Others**

**USD 900/-**

**Overseas Participants**

## PARTICIPANT PROFILE

This course is ideal for those who are responsible for **product development, operations management, quality control, and engineering including department managers, supervisors, quality representatives, engineers, and administrative staff** who have a focus on business improvement, performance, and profitability.

## FACULTY

This program will be conducted by **Mr. M. C. Ramakrishnan**, Former Vice President -Quality, Bosch Limited & **Mr. Gautam Doshi**, Advisor, IMTMA.

**Mr. M. C. Ramakrishnan** is an industry expert with over 40 years of experience in the field of quality tools like Six Sigma, SPC, MSA, Poka - Yoke etc. He is a trained ISO 9001 and TS 16949 auditor, trained six sigma black belt as well as an FMEA moderator. He has championed a number of Quality Improvement projects at Bosch. He was associated in Bosch's campaign and pursuit for 5S, Poka Yoke, SPC, MSA & TPM initiatives.

**Mr. Gautam Doshi** is a B.Tech. (Mech) from IIT, Powai, and an industry expert with over 45 years of experience in Machine Tool and Automotive industry. He has conducted several training programs, seminars & workshops on machine tool-related subjects. He is a consultant to reputed companies in the area of Productivity and Quality improvement and an Adviser to many companies manufacturing automotive components and Dies & Moulds. Mr. Doshi is a former Vice President & Technical Director, PMT Machine Tool Automatics Ltd., Pune, and has also served in Tata Motors for over 5 years. He is the author of several IMTMA publications such as 'First Time CNC', and Guidelines on Process Capability to name a few.

### For Registration Contact

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**REGISTRATION :** Prior registration with an online advance payment is must. Number of participants is limited and will be accepted on 'First Come First Serve' basis. A Certificate of participation will be issued to participants.